

WHAT IS CLAIMED IS:

1. In an optical component in combination with an adhesive composition, the improvement comprising the adhesive composition being a crosslinked product of components which comprise:

(A) a copolymer of a (meth)acrylic ester having a weight-average molecular weight of 500,000 to 2,000,000, said weight-average molecular weight being the weight-average molecular weight of a corresponding polystyrene obtained in accordance with gel permeation chromatography and

(B) a crosslinking agent comprising an adduct of a polyisocyanate compound which comprises (a) isocyanate difunctional adducts of a diisocyanate compound with a diol and (b) adducts of a diisocyanate compound with a polyhydric alcohol, and having an isocyanate functionality of three or greater, in amounts such that a ratio of the amounts by weight of the difunctional adducts (a) and the adducts (b) is 95:5 to 10:90,

wherein the copolymer (A) contains portions capable of reacting with the crosslinking agent (B), and wherein said crosslinking agent (B) is in an amount of 0.001 to 50 parts by weight per 100 parts by weight of said copolymer (A).

2. An adhesive sheet comprising a substrate sheet and a layer which comprises an adhesive composition which is disposed on at least one face of the substrate sheet, the adhesive composition being a crosslinked product of components which comprise:

(A) a copolymer of a (meth)acrylic ester having a weight-average molecular weight of 500,000 to 2,000,000, said weight-

average molecular weight being the weight-average molecular weight of a corresponding polystyrene obtained in accordance with gel permeation chromatography and

(B) a crosslinking agent comprising an adduct of a polyisocyanate compound which comprises (a) isocyanate difunctional adducts of a diisocyanate compound with a diol and (b) adducts of a diisocyanate compound with a polyhydric alcohol, and having an isocyanate functionality of three or greater, in amounts such that a ratio of the amounts by weight of the difunctional adducts (a) and the adducts (b) is 95:5 to 10:90,

wherein the copolymer (A) contains portions capable of reacting with the crosslinking agent (B), and wherein said crosslinking agent (B) is in an amount of 0.001 to 50 parts by weight per 100 parts by weight of said copolymer (A), wherein the diisocyanate compound which forms the adducts (a) or the adducts (b) is selected from the group consisting of tolylene diisocyanate, diphenylmethane diisocyanate, xylylene diisocyanate, hexamethylene diisocyanate, isophorone diisocyanate and hydrogenated diphenylmethane diisocyanate; the diol which forms adducts (a) is selected from the group consisting of ethylene glycol, 1,3-propanediol, 1,4-butanediol, 1,6-hexanediol, polyethylene glycol, polypropylene glycol and polytetramethylene glycol; the polyhydric alcohol which forms the adducts (b) is selected from the group consisting of glycerol, trimethylolpropane, trimethylolethane, pentaerythritol and dimers thereof.

3. An adhesive optical component comprising an optical component in a form of a sheet and a layer which comprises an adhesive composition which is disposed on at least one face of

the optical component, the adhesive composition being a crosslinked product of components which comprise:

(A) a copolymer of a (meth)acrylic ester having a weight-average molecular weight of 500,000 to 2,000,000, said weight-average molecular weight being the weight-average molecular weight of a corresponding polystyrene obtained in accordance with gel permeation chromatography and

(B) a crosslinking agent comprising an adduct of a polyisocyanate compound which comprises (a) isocyanate difunctional adducts of a diisocyanate compound with a diol and (b) adducts of a diisocyanate compound with a polyhydric alcohol, and having an isocyanate functionality of three or greater, in amounts such that a ratio of the amounts by weight of the difunctional adducts (a) and the adducts (b) is 95:5 to 10:90,

wherein the copolymer (A) contains portions capable of reacting with the crosslinking agent (B), and wherein said crosslinking agent (B) is in an amount of 0.001 to 50 parts by weight per 100 parts by weight of said copolymer (A).

4. An adhesive optical component according to Claim 3, wherein the optical component is a polarizing plate.

5. An adhesive composition which is the crosslinked product of components which comprise (C) a copolymer of a (meth)acrylic ester having a weight-average molecular weight of 1,000,000 or greater, (D) 5 to 100 parts by weight per 100 parts by weight of component (C) of an oligomer of (meth)acrylic esters having a weight-average molecular weight of 1,000 to 10,000 and (E) 0.001 to 50 parts by weight per 100

parts by weight of component (C) of a crosslinking component comprising a difunctional crosslinking agent.

6. An adhesive composition according to Claim 5, wherein the copolymer of (meth)acrylic esters of component (C) comprises 0.01 to 10% by weight of a monomer unit having a crosslinking functional group in a molecule.

7. An adhesive composition according to Claim 5, wherein the oligomer of (meth)acrylic esters of component (D) has a ratio of a weight-average molecular weight (Mw) to a number-average molecular weight (Mn) of 2.0 or smaller.

8. An adhesive composition according to Claim 5, wherein the crosslinking component (E) further comprises a crosslinking agent having a functionality of three or greater in amounts such that a ratio of the amounts by weight of the difunctional crosslinking agent and the crosslinking agent having a functionality of three or greater is 100:0 to 10:90.

9. An adhesive composition according to Claim 5, wherein the crosslinking component (E) comprises 0.01 to 10 parts by weight of an adduct of a polyisocyanate compound per 100 parts by weight of component (C).

10. In an optical component in combination with an adhesive composition, the improvement comprising the adhesive composition being a crosslinked product of components which comprise (C) a copolymer of a (meth)acrylic ester having a weight-average molecular weight of 1,000,000 or greater, (D) 5 to 100 parts by weight per 100 parts by weight of component (C) of an oligomer of (meth)acrylic esters having a weight-

average molecular weight of 1,000 to 10,000 and (E) 0.001 to 50 parts by weight per 100 parts by weight of component (C) of a crosslinking component comprising a difunctional crosslinking agent.

11. An adhesive sheet comprising a substrate sheet and a layer which comprises an adhesive composition which is disposed on at least one face of the substrate sheet, the adhesive composition being a crosslinked product of components which comprise (C) a copolymer of a (meth)acrylic ester having a weight-average molecular weight of 1,000,000 or greater, (D) 5 to 100 parts by weight per 100 parts by weight of component (C) of an oligomer of (meth)acrylic esters having a weight-average molecular weight of 1,000 to 10,000 and (E) 0.001 to 50 parts by weight per 100 parts by weight of component (C) of a crosslinking component comprising a difunctional crosslinking agent.

12. An adhesive optical component comprising an optical component in a form of a sheet and a layer which comprises an adhesive composition which is disposed on at least one face of the optical component, the adhesive composition being a crosslinked product of components which comprise (C) a copolymer of (meth)acrylic esters having a weight-average molecular weight of 1,000,000 or greater, (D) 5 to 100 parts by weight per 100 parts by weight of component (C) of an oligomer of (meth)acrylic esters having a weight-average molecular weight of 1,000 to 10,000 and (E) 0.001 to 50 parts by weight per 100 parts by weight of component (C) of a crosslinking component comprising a difunctional crosslinking agent.

13. An adhesive optical component according to Claim 12, wherein the optical component is a polarizing plate.

14. An optical component in combination with an adhesive composition according to Claim 1, wherein the component (B) is in an amount of 0.01 to 10 parts by weight per 100 parts by weight of the component (A).

15. An adhesive sheet according to Claim 2, wherein the component (B) is in an amount of 0.01 to 10 parts by weight per 100 parts by weight of the component (A).

16. An adhesive sheet according to Claim 3, wherein the component (B) is in an amount of 0.01 to 10 parts by weight per 100 parts by weight of the component (A).

17. An adhesive composition according to Claim 5, wherein the copolymer of the (meth)acrylic ester has a weight-average molecular weight of 1,200,000 to 2,200,000 and has a content of a crosslinking functional group of 0.01 to 10% by weight.

18. An adhesive composition according to Claim 16, wherein the oligomer of (meth)acrylic esters has a weight-average molecular weight of 4,000 to 10,000 and has a ratio of the weight-average molecular weight to a number-average molecular weight of 2.0 or less.

19. An optical component in combination with an adhesive composition according to Claim 10, wherein the copolymer of the (meth)acrylic ester has a weight-average

molecular weight of 1,200,000 to 2,200,000 and has a content of a crosslinking functional group of 0.01 to 10% by weight.

20. An optical component in combination with an adhesive composition according to Claim 19, wherein the oligomer of (meth)acrylic esters has a weight-average molecular weight of 4,000 to 10,000 and has a ratio of the weight-average molecular weight to a number-average molecular weight of 2.0 or less.

21. An adhesive sheet according to Claim 11, wherein the copolymer of the (meth)acrylic ester has a weight-average molecular weight of 1,200,000 to 2,200,000 and has a content of a crosslinking functional group of 0.01 to 10% by weight.

22. An adhesive sheet according to Claim 21, wherein the oligomer of (meth)acrylic esters has a weight-average molecular weight of 4,000 to 10,000 and has a ratio of the weight-average molecular weight to a number-average molecular weight of 2.0 or less.

23. An adhesive optical component according to Claim 12, wherein the copolymer of the (meth)acrylic ester has a weight-average molecular weight of 1,200,000 to 2,200,000 and has a content of a crosslinking functional group of 0.01 to 10% by weight.

24. An adhesive optical component according to Claim 23, wherein the oligomer of (meth)acrylic esters has a weight-average molecular weight of 4,000 to 10,000 and has a ratio of the weight-average molecular weight to a number-average molecular weight of 2.0 or less.